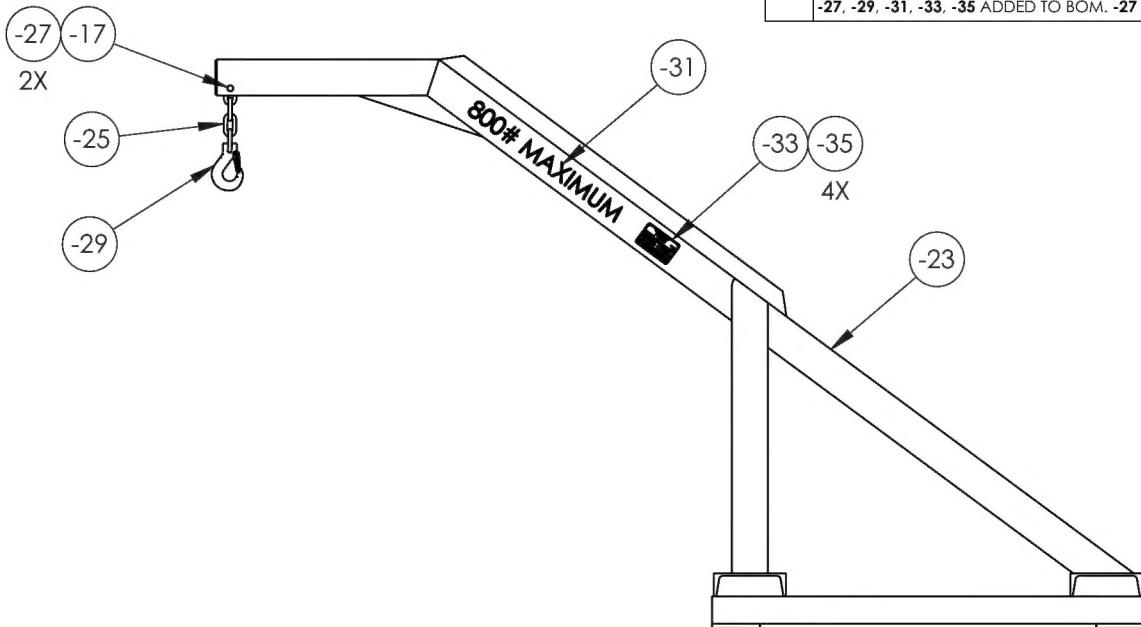


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	
2	CH'D TITLE BLOCK & PLACARD WAS RED BARN IS DART. REDRAWN IN SOLIDWORKS. UPDATED TO NEW DRAFTING STANDARDS. CH'D TOLERANCE ON NON-CRITICAL PARTS. -1 CH'D DIM WAS 2X 1/4-20 THRU IS 2X Ø.281 THRU. -5 CH'D B/O INFO WAS 3X 3X 3/16 WALL X 72-1/8 IS 3X 3X 3/16 WALL X 72. -7 CH'D B/O INFO WAS 3/16 X 1-1/2 X 37-1/4 IS 3/16 X 1-1/2 X 36. -10 ADDED PART. -19 CH'D B/O INFO WAS Ø1 X 1/4 WALL X 3/4 IS Ø1 X 3/4. -17 ADDED FINISH BLACK OXIDE. -21, -23, -25, -27, -29, -31, -33, -35 ADDED TO BOM. -27 & -29 ADDED B/O P/N'S. -33 WAS B/O IS IN HOUSE.	6/20/2014	DPD	GE



ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
1			-1		SQUARE TUBE	1018	3 X 3 X 3/16 WALL X 18-1/2	2
1			-3		SQUARE TUBE	1018	3 X 3 X 3/16 WALL X 11	3
1			-5		SQUARE TUBE	1018	3 X 3 X 3/16 WALL X 72	4
1			-7		RIB	A36	3/16 X 1-1/2 X 36	5
1			-9		SQUARE TUBE	1018	3 X 3 X 3/16 WALL X 29	6
1			-10		SQUARE TUBE	1018	3 X 3 X 3/16 WALL X 29	7
2			-11		CHANNEL, STRUCTURAL	STEEL	C6 X 8.2 X 36	8
2			-13		CHANNEL, STRUCTURAL	STEEL	C8 X 11.5 X 36	9
4			-15		PLATE	A36	3/8 X 4 X 8	10
			-17	1	PIN	1018	Ø1/2 X 3	11
2			-19		BUSHING	1018	Ø1 X 3/4	12
1			-21		CAP	1018	1/8 X 3 X 3	13
X			-23	1	FRAME WELDMENT			14
B/O		-25	1	CHAIN	STEEL	Ø5/16 X 4 LINKS	EUGENE EQUIPMENT	1
B/O		-27	2	SET SCREW	STEEL	1/4-20 X 1/4	MCMASTER-CARR #98637A401	1
B/O		-29	1	HOOK WITH CLEVIS	STEEL	EUGENE EQUIPMENT #C5516L		1
B/O		-31	1	DECAL	VINYL	YELLOW "800# MAXIMUM" SIGNS NOW		15
		-33	1	DART PLACARD	ALUMINUM	RED BARN #RB41011		1
B/O		-35	4	DRIVE SCREW	STEEL	#2 X 1/8	MCMASTER-CARR #90081A074	1
ASSY -23								

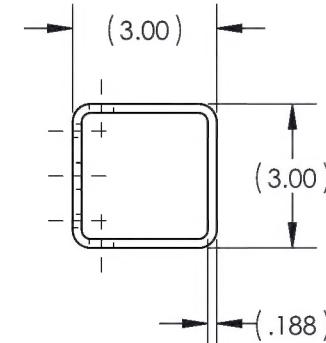
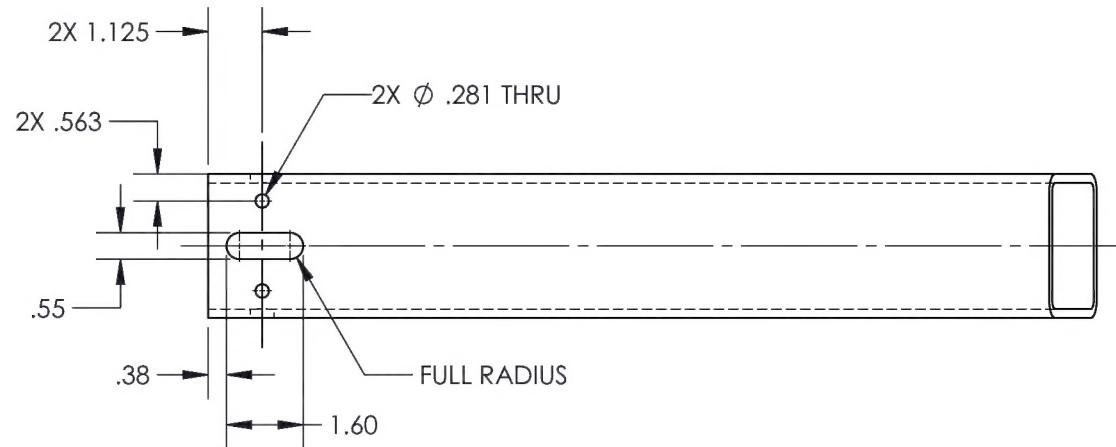
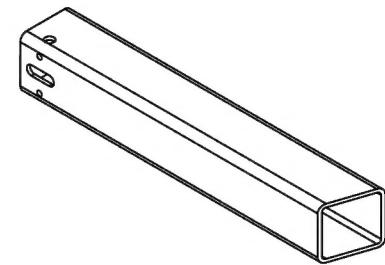
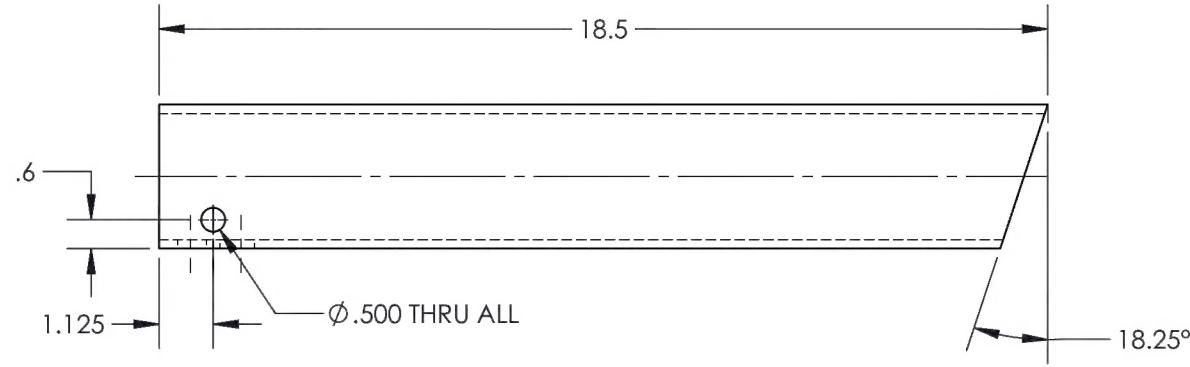
DART
AEROSPACE

TITLE: FORKLIFT CRANE ATTACHMENT

DWG NO.	RBT18630	REV
MAT'L	DRAWN BY: DUERFELDT	APPROVED: D Weil
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1	FRACTIONS ± 1/32 ANGLES ± 5°	HEAT TREAT FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		
SCALE 1:16	DATE 6/20/2014	SHEET 1 OF 15

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REV		DESCRIPTION		DATE	INITIAL	APPROVED
2		-1 CH'D DIM WAS 2X 1/4-20 THRU IS 2X Ø.281 THRU.		6/23/2014	DPD	GE

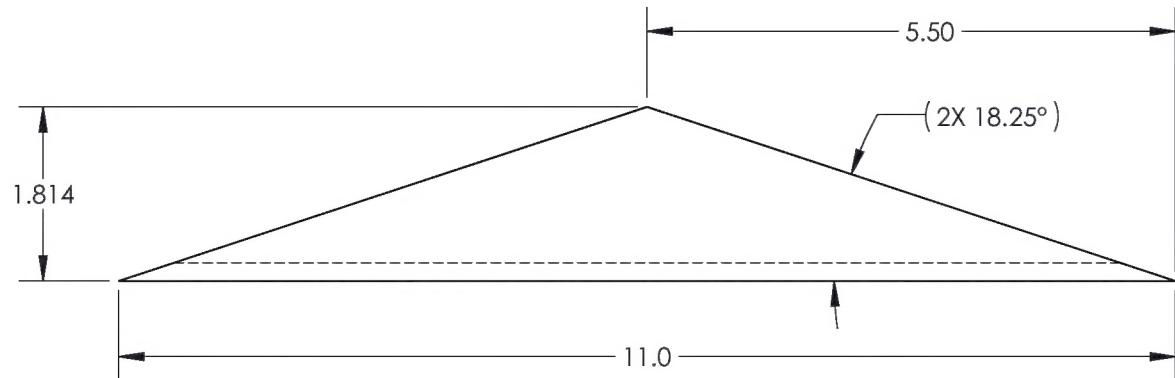
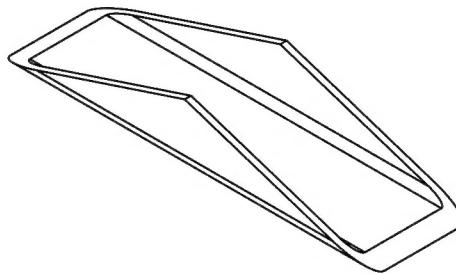


(-1)
SQUARE TUBE

DART AEROSPACE	
TITLE FORKLIFT CRANE ATTACHMENT	
DWG NO.	RBT18630-1
MAT'L	1018
DRAWN BY:	DUERFELDT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	HEAT TREAT
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FINISH SEE -23 WELDMENT
	SPEC
	USED ON MODEL
SCALE	1:4
DATE	6/20/2014
SHEET 2 OF 15	

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REV				DESCRIPTION	DATE	INITIAL	APPROVED
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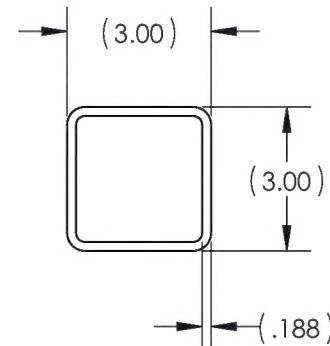
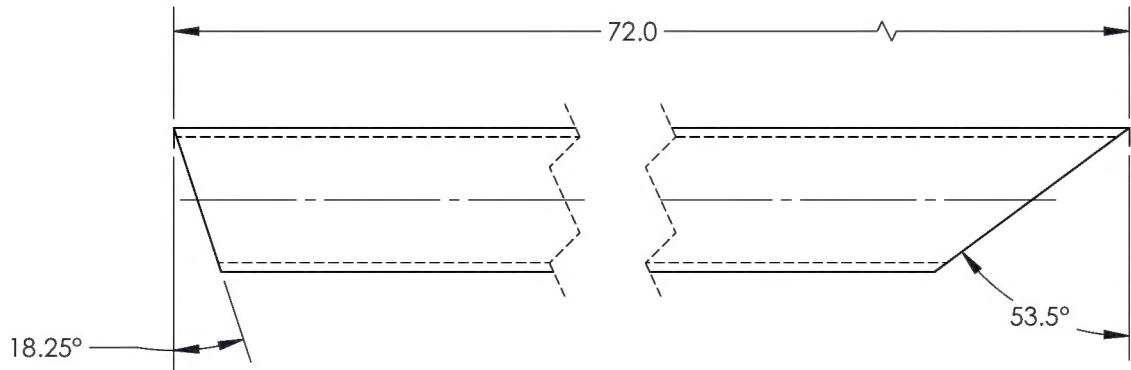
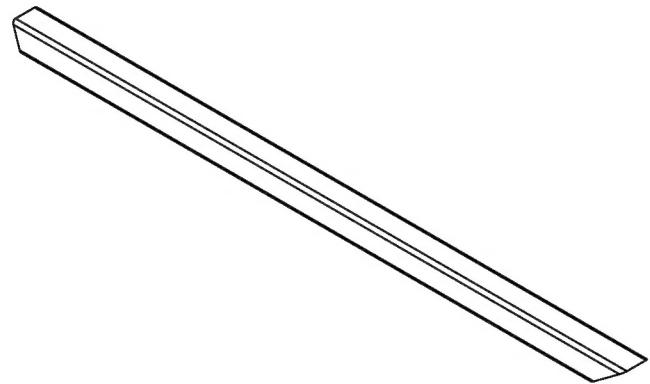


(-3)
SQUARE TUBE

DART AEROSPACE	
TITLE	FORKLIFT CRANE ATTACHMENT
DWG NO.	RBT18630-3
MAT'L	1018
DRAWN BY:	DUERFELDT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	DIMENSIONS ARE IN INCHES
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	HEAT TREAT FINISH SEE -23 WELDMENT
1. BREAK ALL SHARP EDGES .015 x 45°	SPEC
OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	1:2
DATE	6/20/2014
SHEET 3 OF 15	

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REV				DESCRIPTION	DATE	INITIAL	APPROVED
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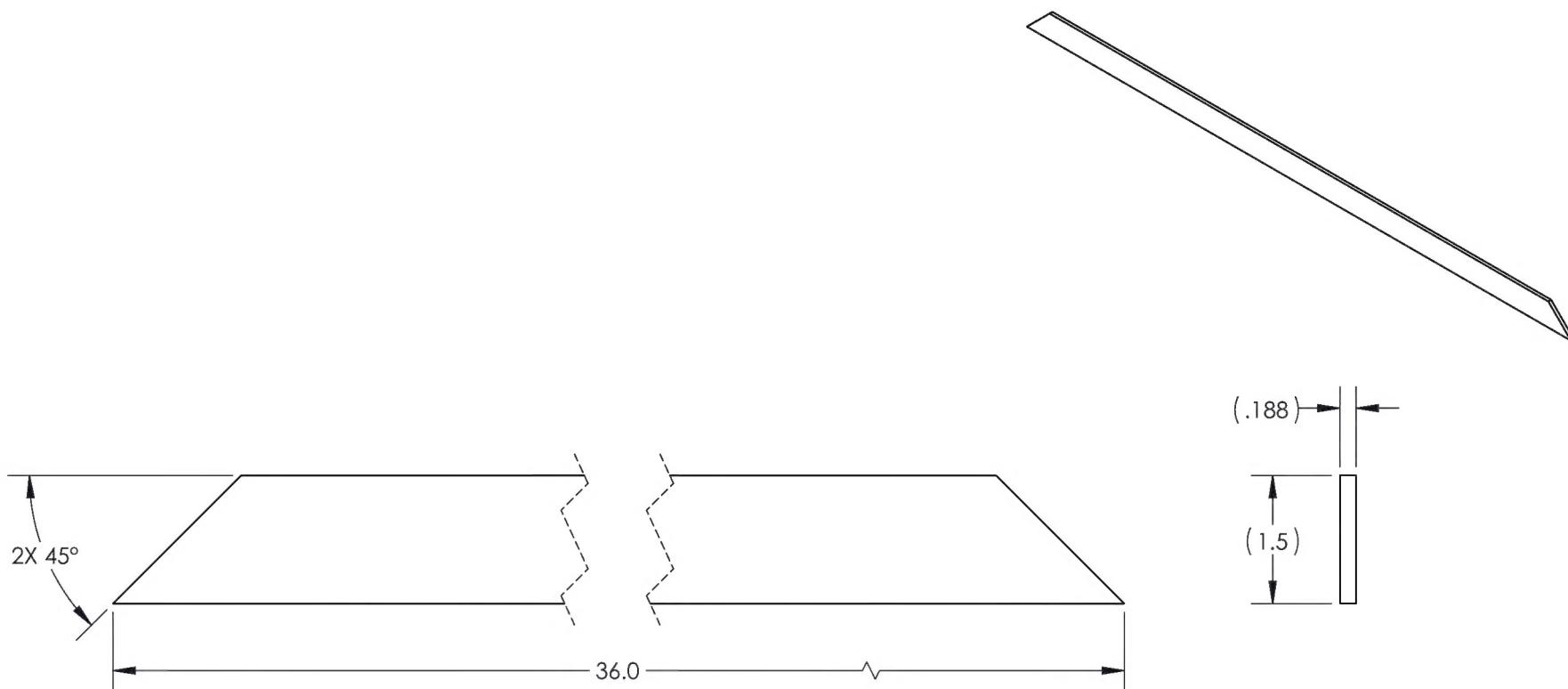
SQUARE TUBE

(-5)

DART AEROSPACE	
TITLE	
FORKLIFT CRANE ATTACHMENT	
DWG NO.	RBT18630-5
MAT'L	1018
DRAWN BY:	DUERFELDT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45°	
OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER	
PLATING	
USED ON MODEL	
SCALE	1:4
DATE	6/20/2014
SHEET 4 OF 15	

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REV				DESCRIPTION	DATE	INITIAL	APPROVED
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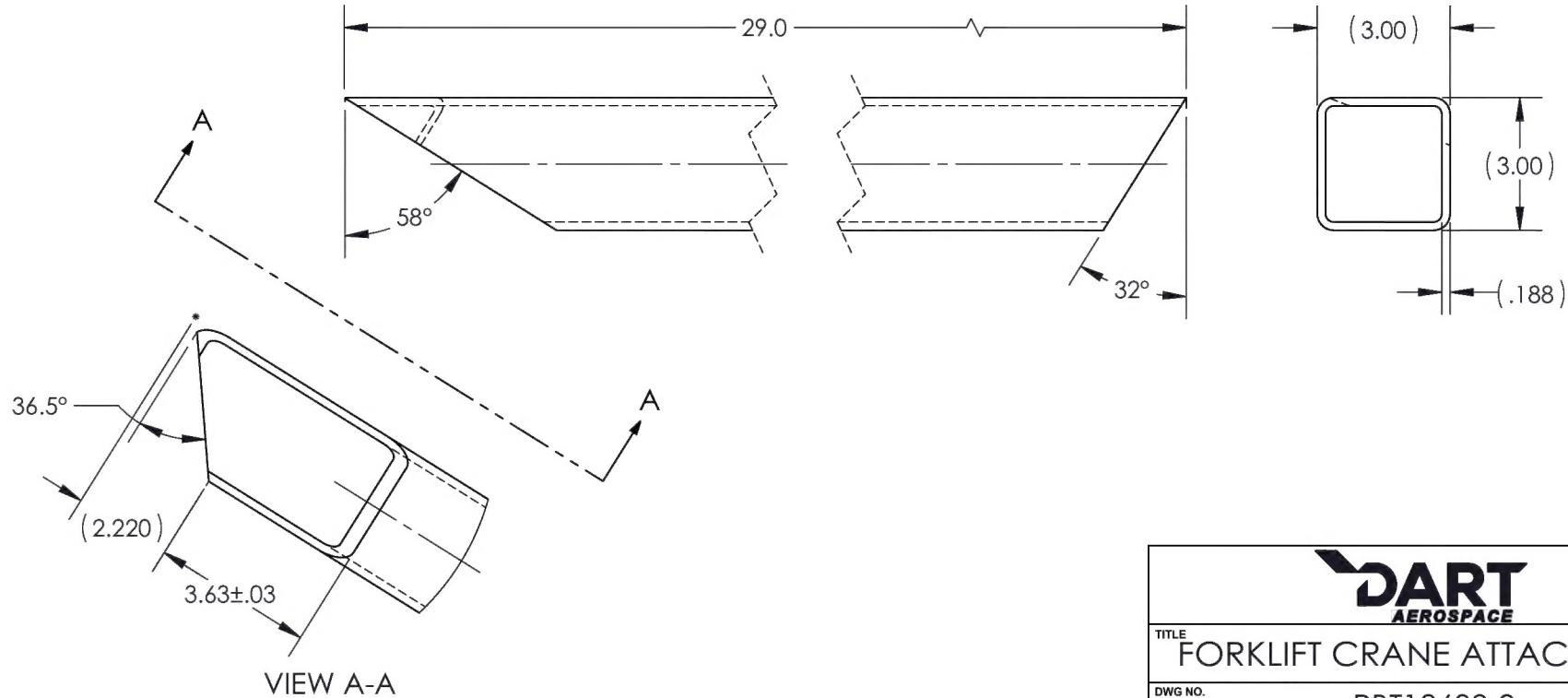
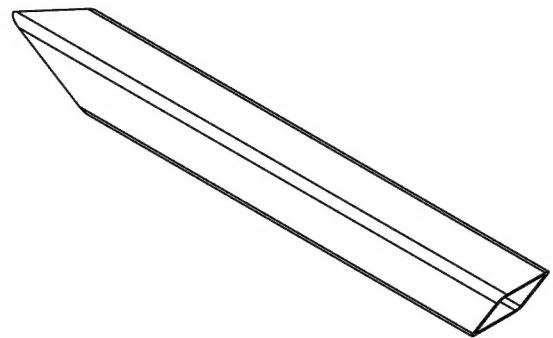
(-7)

RIB

DART AEROSPACE	
TITLE	FORKLIFT CRANE ATTACHMENT
DWG NO.	RBT18630-7
MAT'L	A36
DRAWN BY:	DUERFELDT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SEE -23 WELDMENT
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SPEC
	USED ON MODEL
SCALE	1:2
DATE	6/20/2014
SHEET 5 OF 15	

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REV		DESCRIPTION		DATE	INITIAL	APPROVED
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SQUARE TUBE

(-9)

TITLE	
FORKLIFT CRANE ATTACHMENT	
DWG NO.	RBT18630-9
MAT'L	1018
UNLESS OTHERWISE SPECIFIED	DRAWN BY:
DIMENSIONS ARE IN INCHES	APPROVED
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45°	SEE -23 WELDMENT
OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER	USED ON MODEL
PLATING	
SCALE	1:4
DATE	
SHEET 6 OF 15	

REV
2

D Weil

HEAT TREAT FINISH

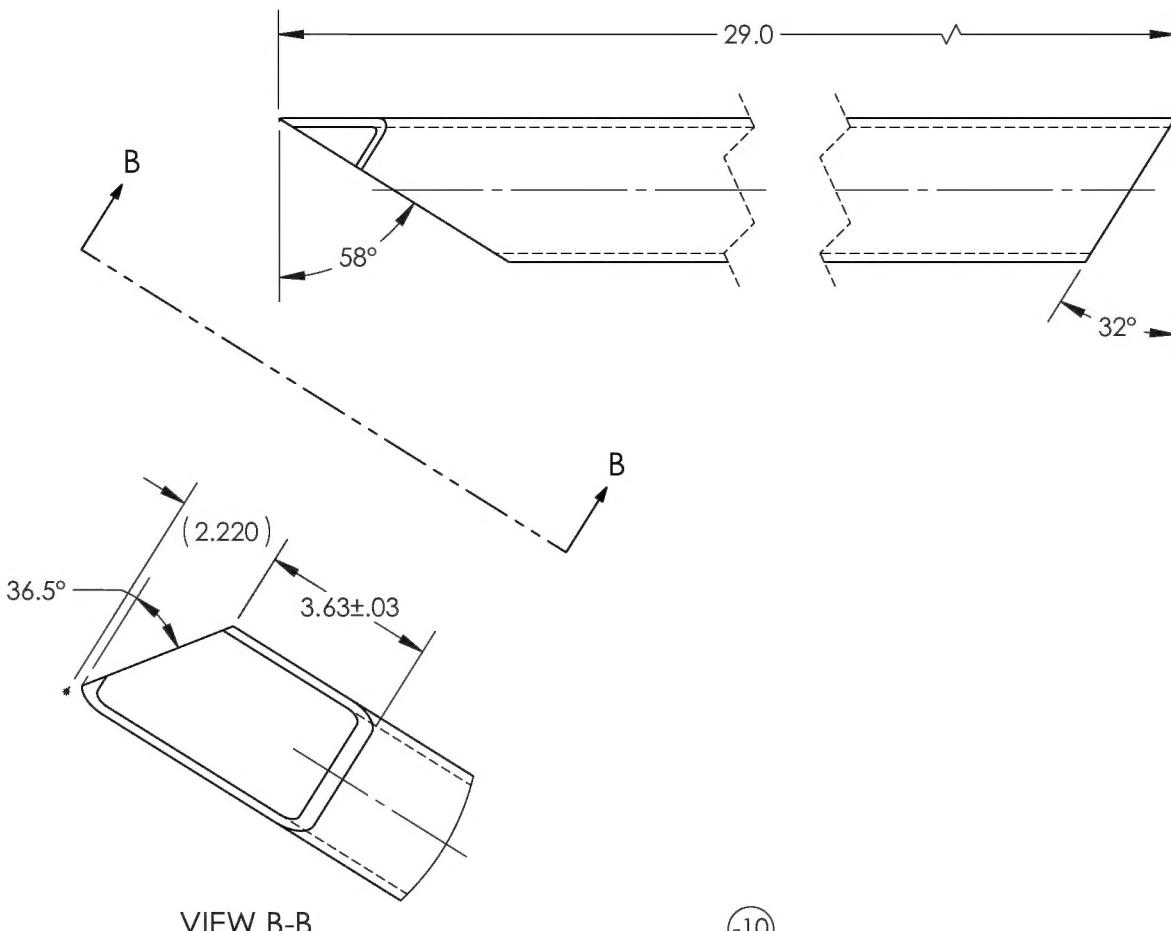
SEE -23 WELDMENT

SPEC

USED ON MODEL

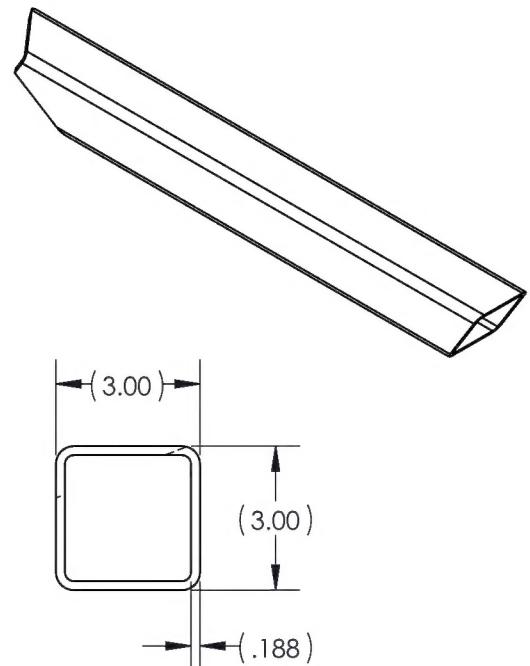
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REV		DESCRIPTION		DATE	INITIAL	APPROVED
1	-10	ADDED PART.		6/24/2014	DPD	GE



(-10)

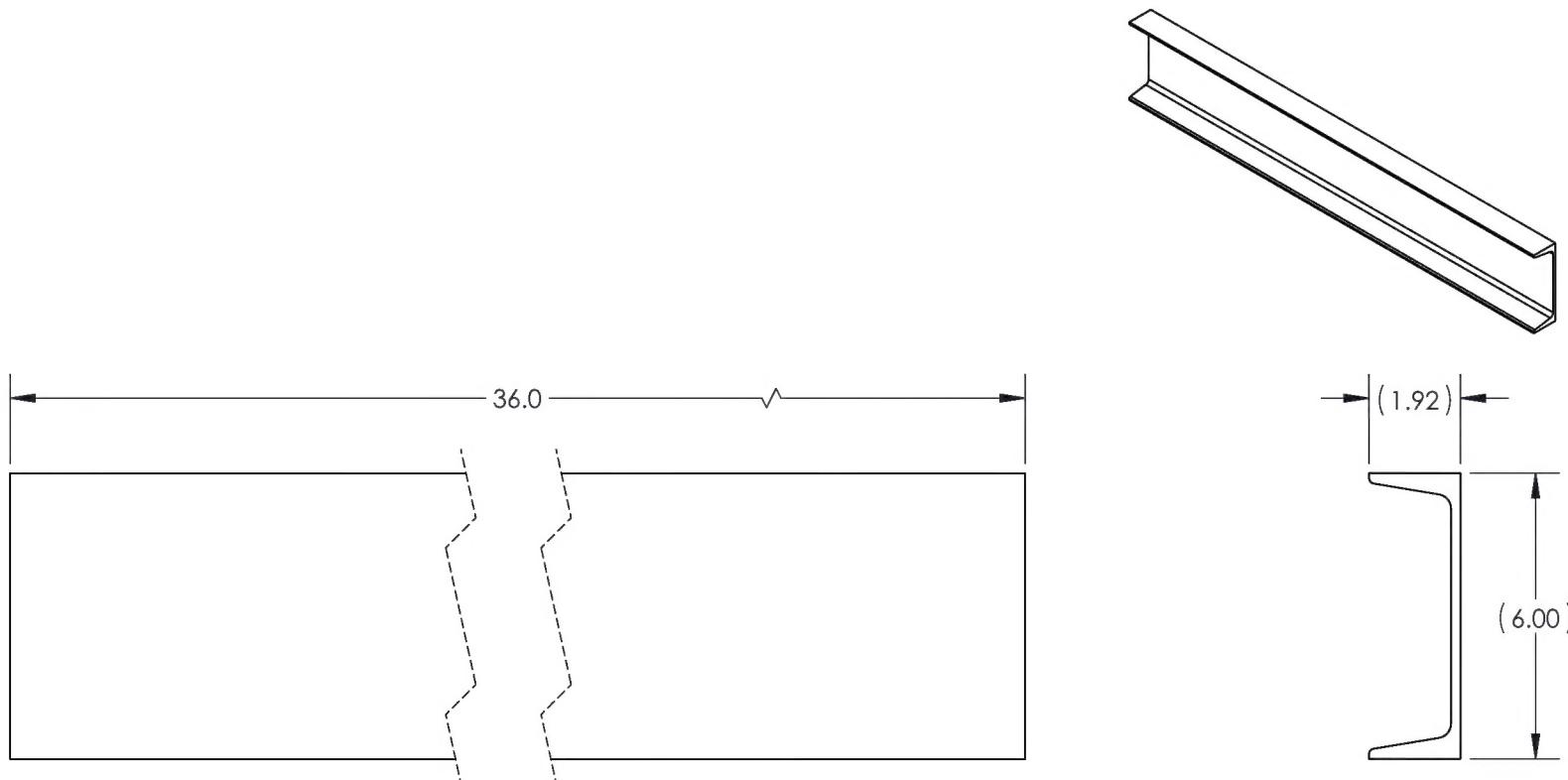
SQUARE TUBE



DART AEROSPACE	
TITLE FORKLIFT CRANE ATTACHMENT	
DWG NO.	RBT18630-10
MAT'L	1018
DRAWN BY:	DUERFELDT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45°	
OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER	
PLATING	
SCALE	1:4
DATE	6/20/2014
SHEET 7 OF 15	

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REV				DESCRIPTION	DATE	INITIAL	APPROVED
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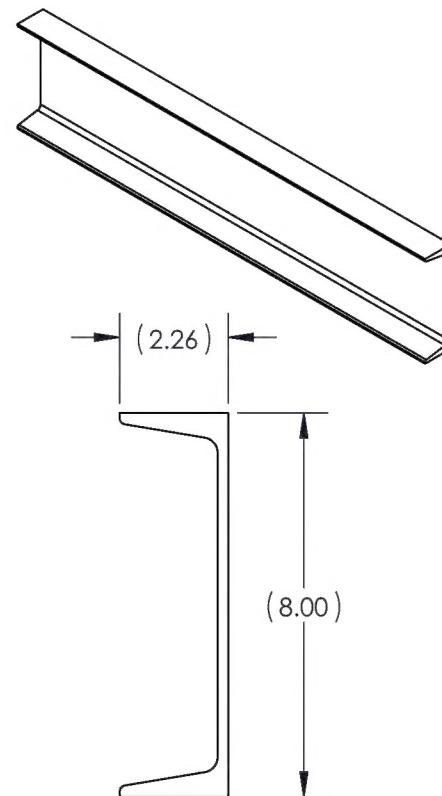
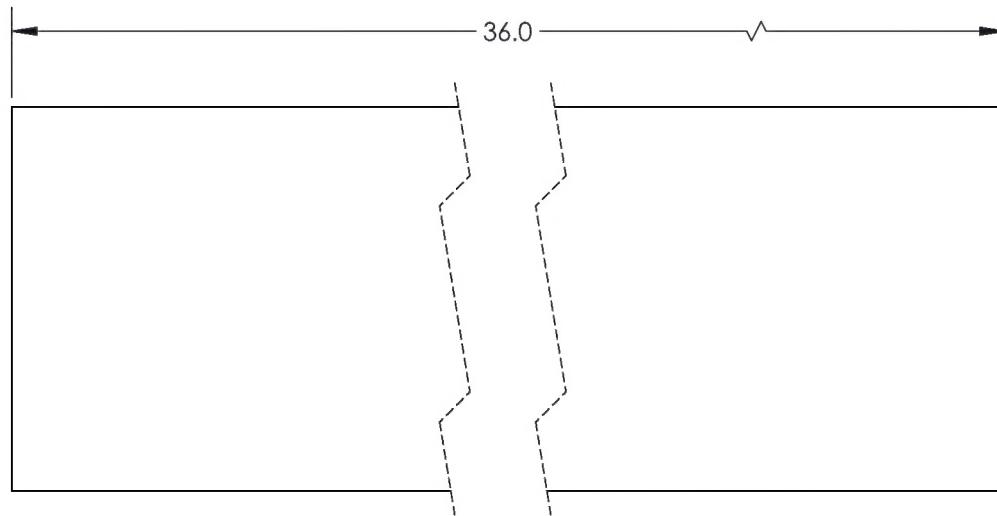
CHANNEL, STRUCTURAL

-11

DART AEROSPACE	
TITLE	FORKLIFT CRANE ATTACHMENT
DWG NO.	RBT18630-11
MAT'L	STEEL
DRAWN BY:	DUERFELDT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	DIMENSIONS ARE IN INCHES
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SEE -23 WELDMENT
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SPEC
	USED ON MODEL
SCALE	1:4
DATE	6/20/2014
SHEET 8 OF 15	

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REV				DESCRIPTION	DATE	INITIAL	APPROVED
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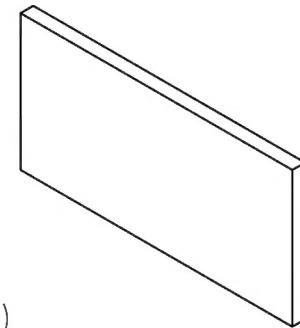
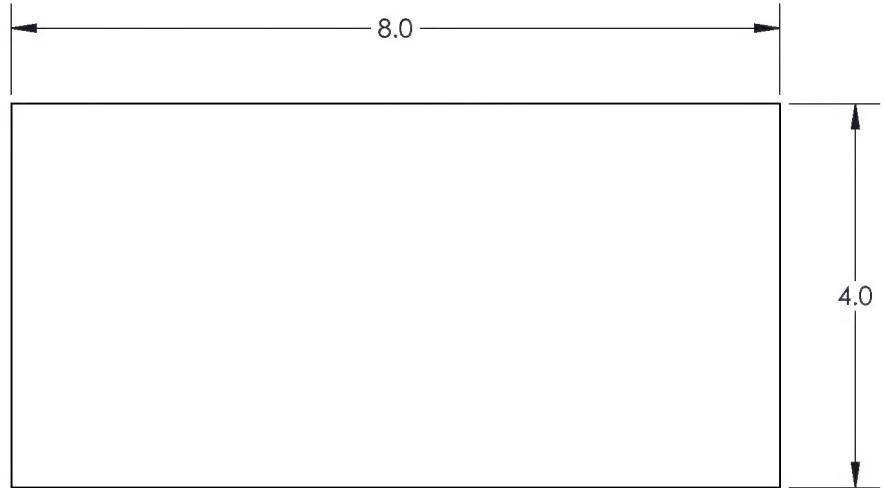
CHANNEL, STRUCTURAL

(-13)

DART AEROSPACE	
TITLE	FORKLIFT CRANE ATTACHMENT
DWG NO.	RBT18630-13
MAT'L	STEEL
DRAWN BY:	DUERFELDT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	DIMENSIONS ARE IN INCHES
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	HEAT TREAT
	FINISH SEE -23 WELDMENT
1. BREAK ALL SHARP EDGES .015 x 45°	SPEC
OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER	
PLATING	
SCALE	1:4
DATE	6/20/2014
SHEET 9 OF 15	

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REV				DESCRIPTION	DATE	INITIAL	APPROVED
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-15

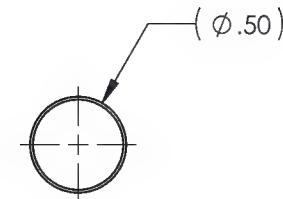
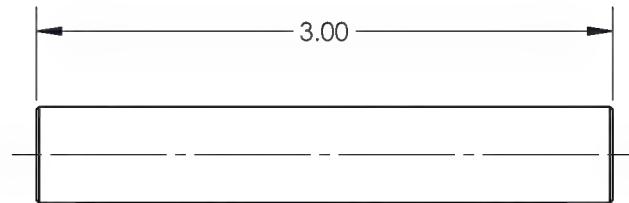
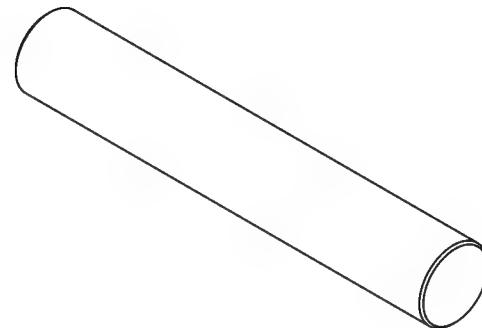
PLATE

DART AEROSPACE	
TITLE	FORKLIFT CRANE ATTACHMENT
DWG NO.	RBT18630-15
MAT'L	A36
DRAWN BY:	DUERFELDT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45°	
OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER	
PLATING	
USED ON MODEL	
SCALE	1:2
DATE	6/20/2014
SHEET	10 OF 15

REV
2

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REVISIONS					
REV	DESCRIPTION	DATE	INITIAL	APPROVED	
2	-17 ADDED FINISH BLACK OXIDE.	6/23/2014	DPD	GE	



(-17)

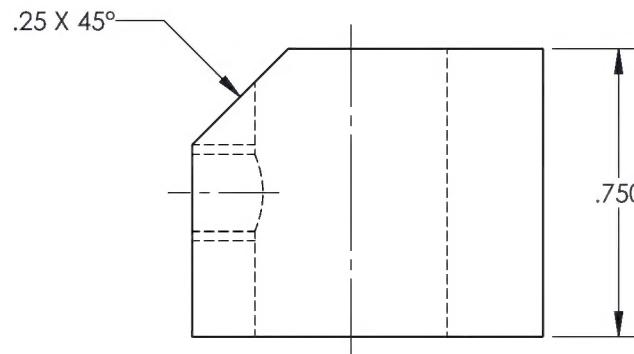
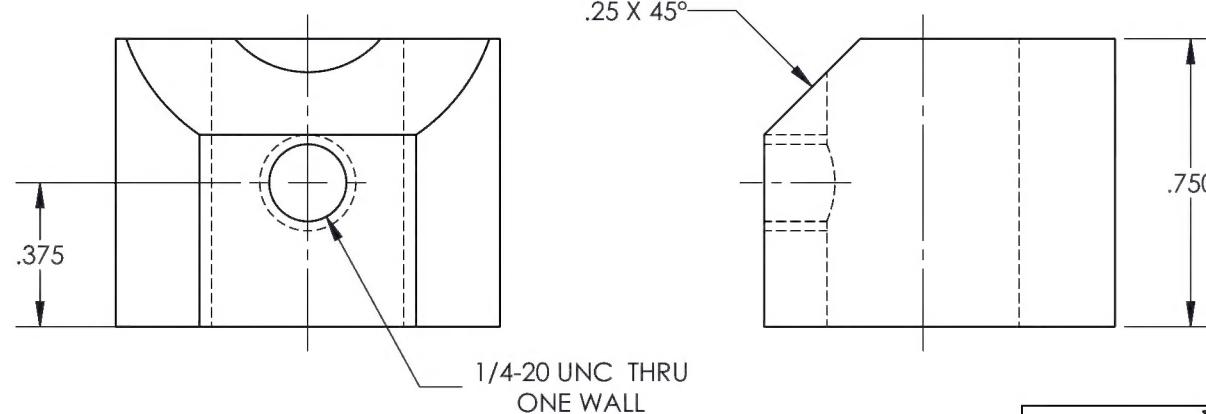
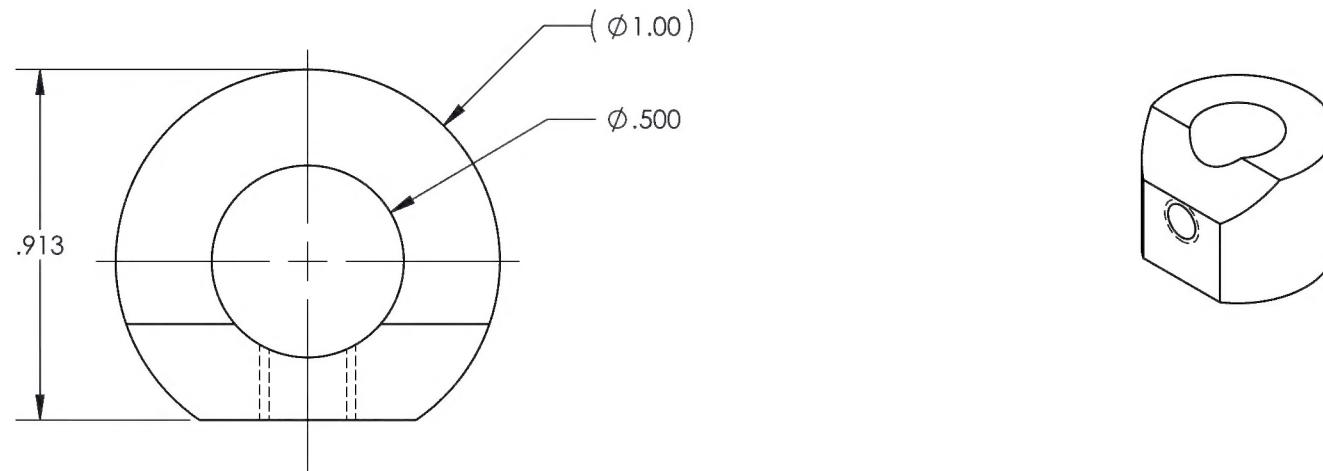
PIN

DART AEROSPACE	
TITLE	FORKLIFT CRANE ATTACHMENT
DWG NO.	RBT18630-17
MAT'L	1018
DRAWN BY:	DUERFELDT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	HEAT TREAT
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FINISH BLACK OXIDE
SPEC	USED ON MODEL
SCALE	1:1
DATE	6/20/2014
SHEET	11 OF 15

REV
2

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REV		DESCRIPTION	DATE	INITIAL	APPROVED
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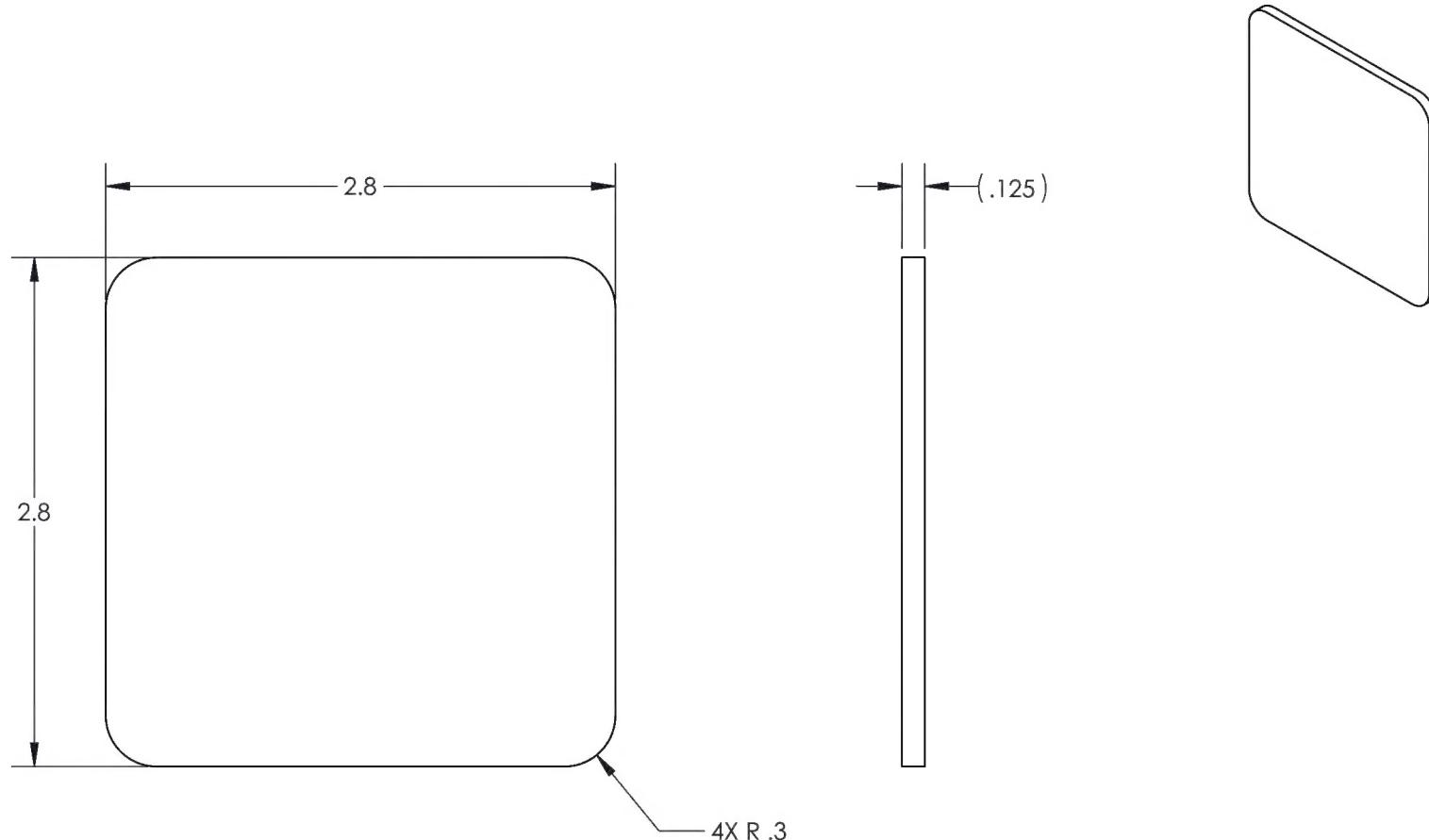
-19

BUSHING

DART AEROSPACE	
TITLE FORKLIFT CRANE ATTACHMENT	
DWG NO. MAT'L 1018	DRAWN BY: DUERFELDT APPROVED <i>D Weil</i>
REV 2	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX \pm .005 FRACTIONS \pm 1/32	
.XX \pm .01 ANGLES \pm 5°	
.X \pm .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 2:1	DATE 6/20/2014
SHEET 12 OF 15	

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REV				DESCRIPTION	DATE	INITIAL	APPROVED
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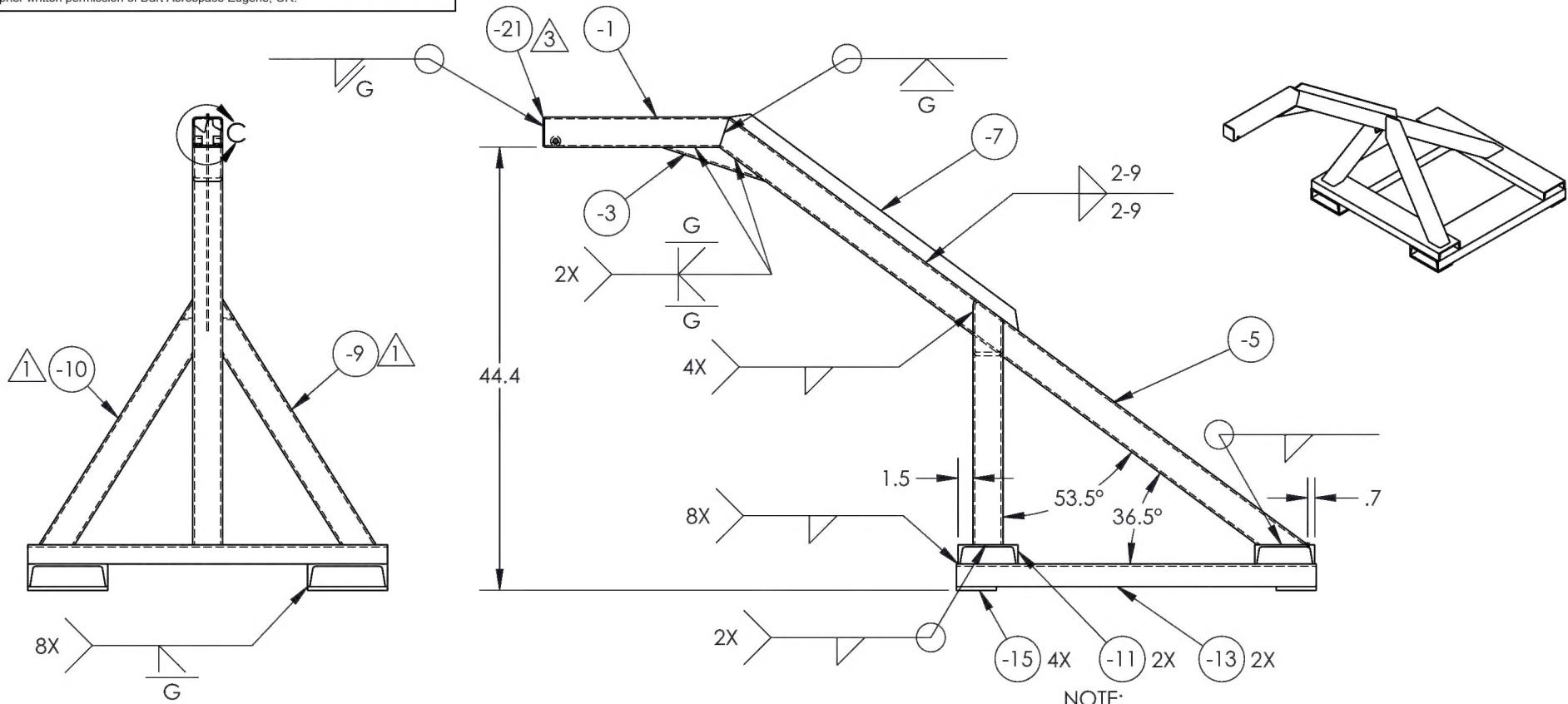
(-21)

CAP

DART AEROSPACE	
TITLE FORKLIFT CRANE ATTACHMENT	
DWG NO. RBT18630-21	REV 2
DRAWN BY: DUERFELDT	
APPROVED D Weil	
MAT'L 1018	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/32	
.XX ± .01 ANGLES ± 5°	
.X ± .1	
HEAT TREAT SEE -23 WELDMENT	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SPEC	
USED ON MODEL	
SCALE 1:1	DATE 6/20/2014
SHEET 13 OF 15	

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REV	DESCRIPTION			DATE	INITIAL	APPROVED
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NOTE:
 1 CAP & WELD OPEN ENDS & GRIND FLUSH.
 2 WELD -19 INSIDE WITH SET SCREWS ALIGNED WITH Ø.281 HOLES.
 3 WELD -21 TO -1.

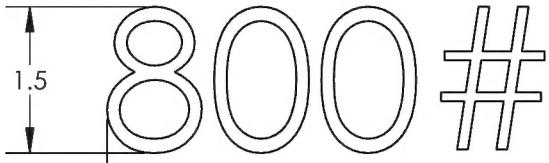
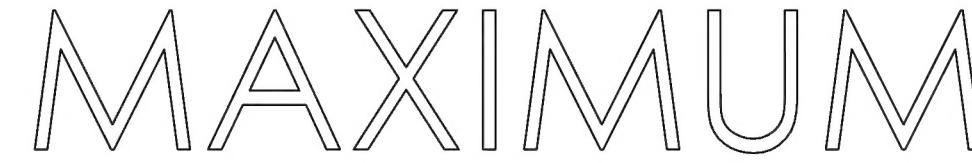
DART AEROSPACE	
TITLE FORKLIFT CRANE ATTACHMENT	
DWG NO.	RBT18630-23
MAT'L	DRAWN BY: DUERFELDT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	HEAT TREAT
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FINISH POWDER COAT RED
	SPEC RAL 3000
	USED ON MODEL
SCALE 1:16	DATE
SHEET 14 OF 15	

-23

CRANE WELDMENT

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REV				DESCRIPTION	DATE	INITIAL	APPROVED
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1.5


 15.3

(-31)

DECAL

DART AEROSPACE	
TITLE FORKLIFT CRANE ATTACHMENT	
DWG NO. RBT18630-31 REV 2	
MATERIAL VINYL DRAWN BY: DUERFELDT	
APPROVED D Weil	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/32	
.XX ± .01 ANGLES ± 5°	
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
USED ON MODEL	
SCALE 1:2	DATE 6/20/2014
SHEET 15 OF 15	